503/08-58 **00

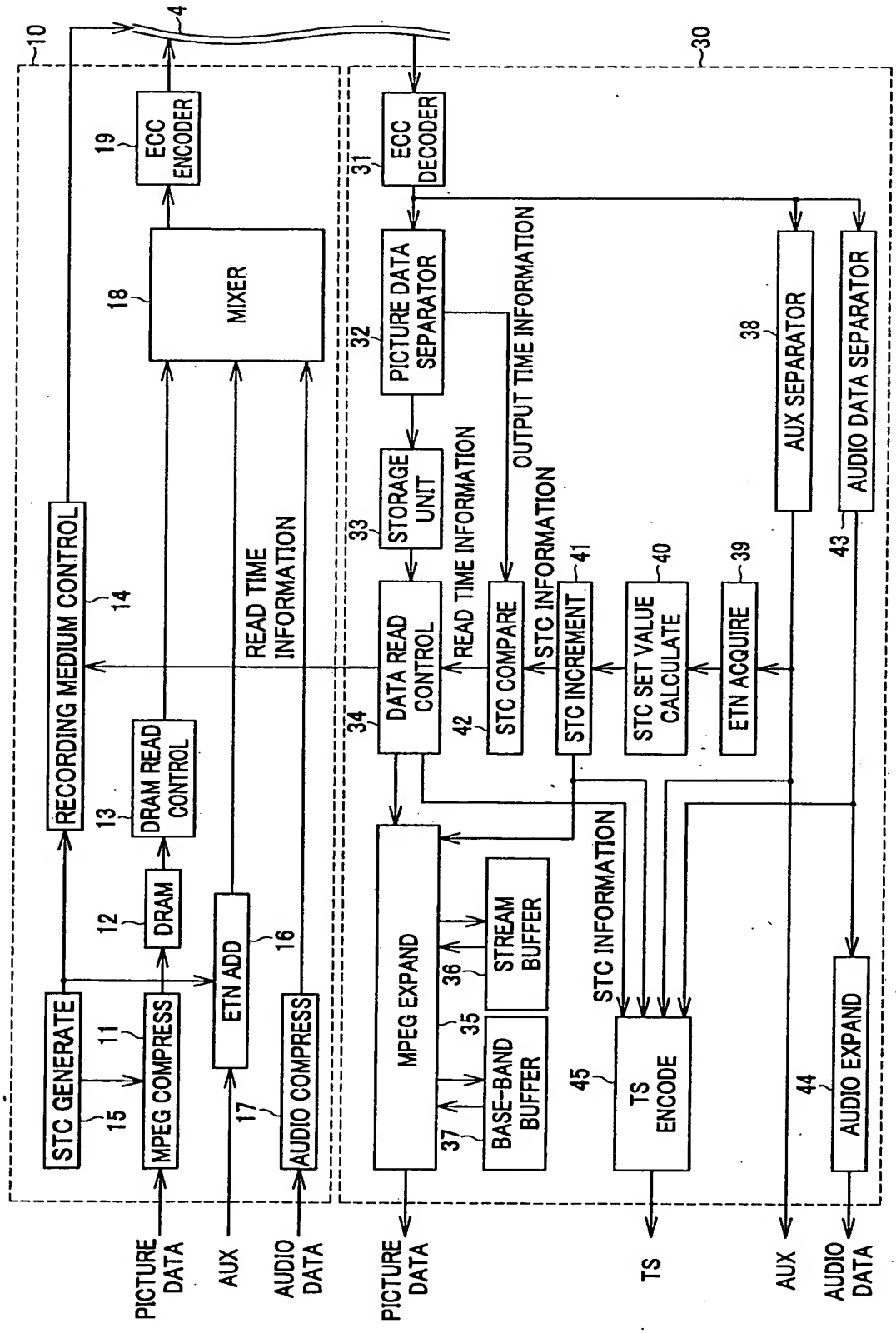

FIG.1

FIG.2A

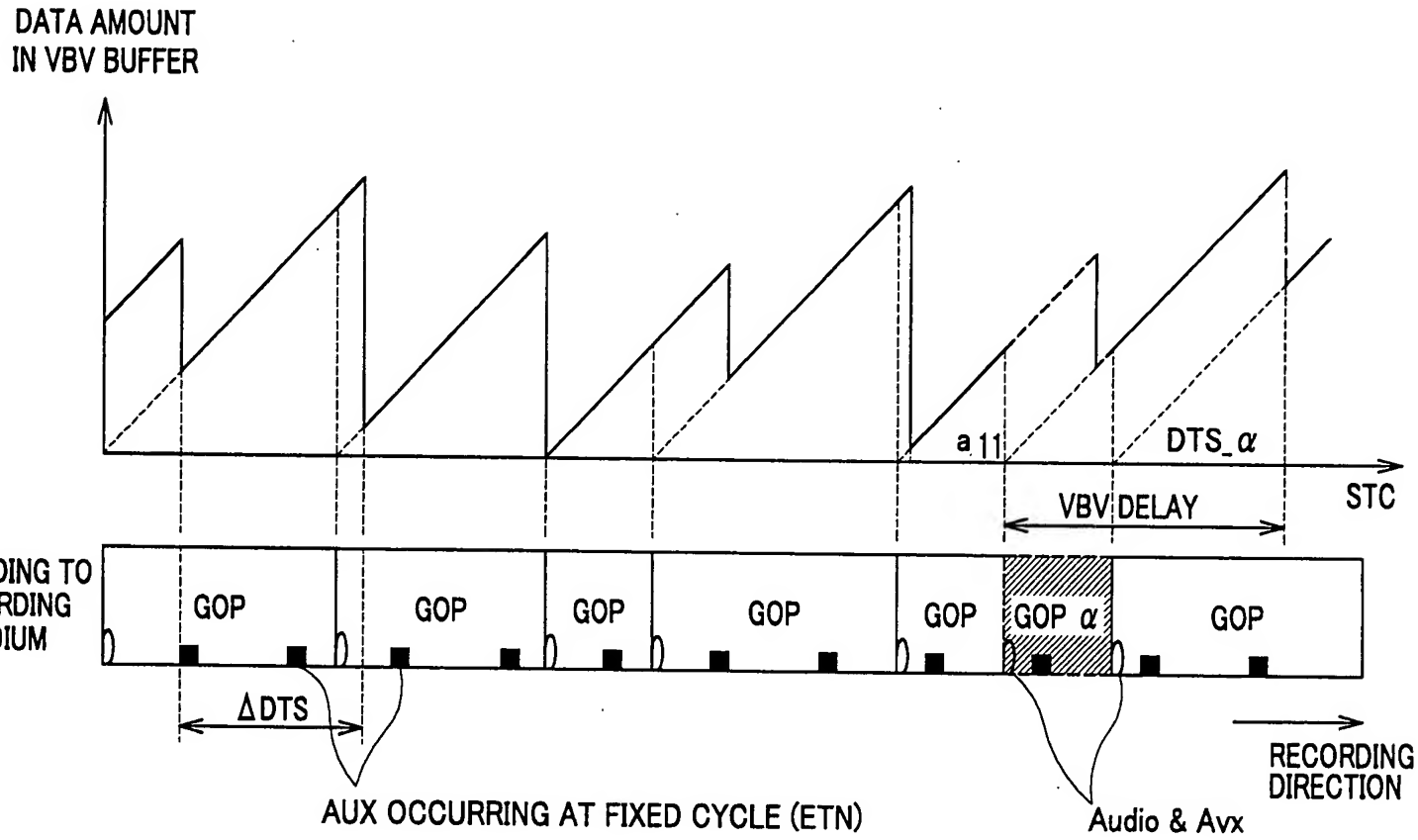
DATA AMOUNT
IN VBV BUFFER
a 11
DTS_α
STC
VBV DELAY

FIG.2B

RECORDING TO
RECORDING
MEDIUM
GOP
GOP
GOP
GOP
GOP
GOP α
GOP
ΔDTS
AUX OCCURRING AT FIXED CYCLE (ETN)
Audio & Avx
RECORDING
DIRECTION

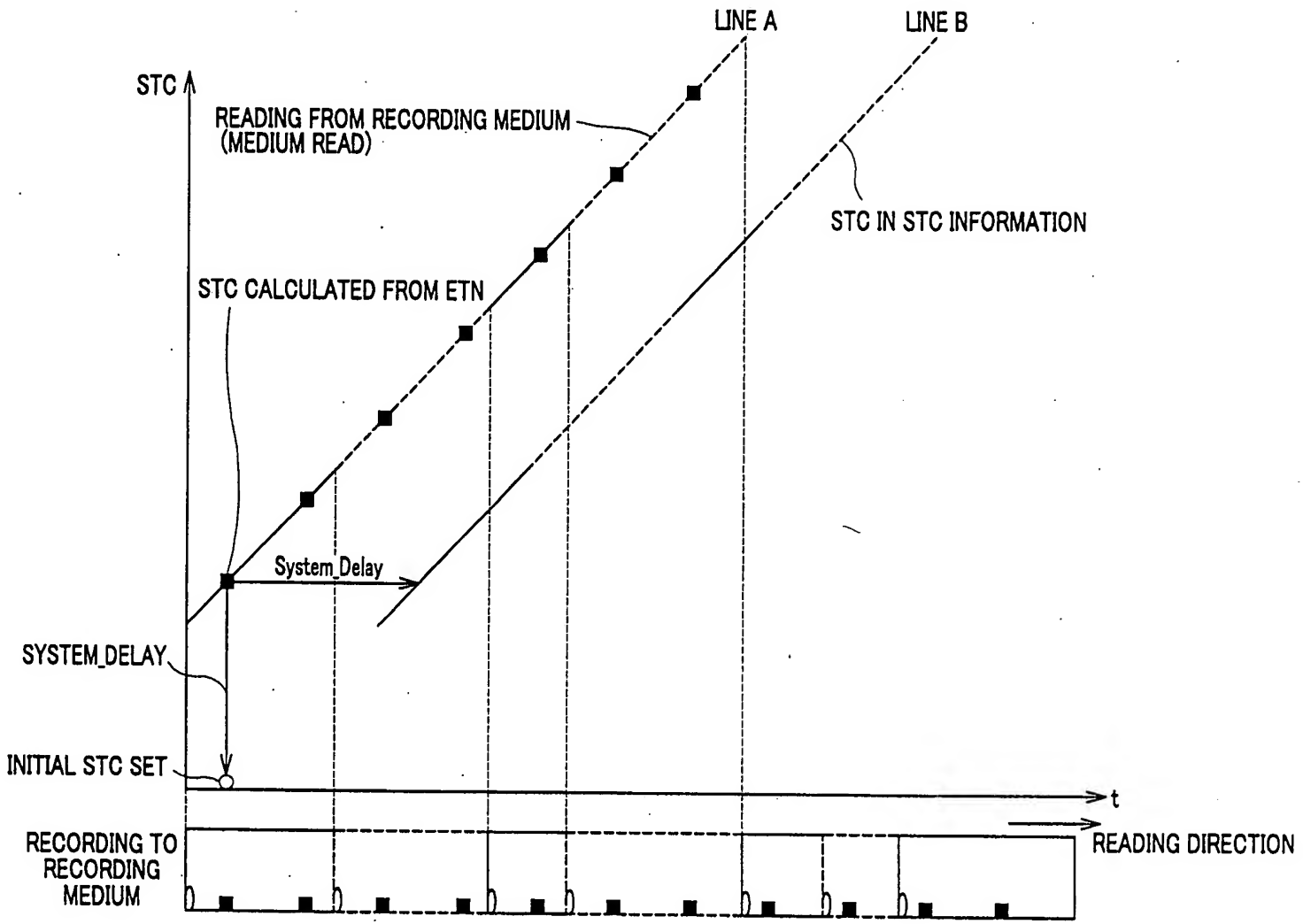
LINE A
LINE B
STC
READING FROM RECORDING MEDIUM
(MEDIUM READ)
STC IN STC INFORMATION
STC CALCULATED FROM ETN
System_Delay
SYSTEM_DELAY
INITIAL STC SET
t
RECORDING TO
RECORDING
MEDIUM
READING DIRECTION

FIG.3

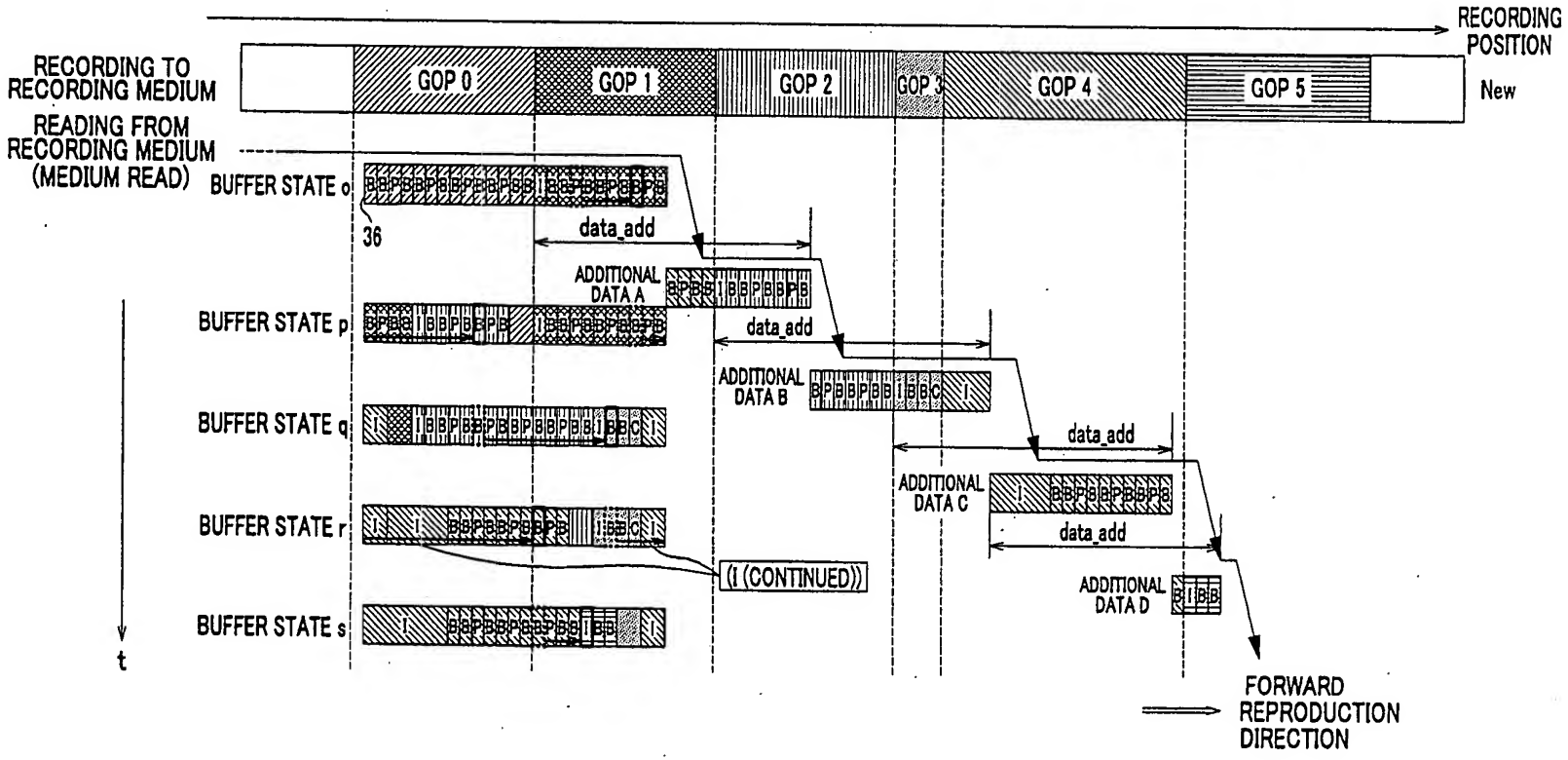
RECORDING POSITION
RECORDING TO RECORDING MEDIUM
READING FROM RECORDING MEDIUM (MEDIUM READ)
GOP 0
GOP 1
GOP 2
GOP 3
GOP 4
GOP 5
New
BUFFER STATE o
BUFFER STATE p
BUFFER STATE q
BUFFER STATE r
BUFFER STATE s
36
data_add
ADDITIONAL DATA A
ADDITIONAL DATA B
ADDITIONAL DATA C
ADDITIONAL DATA D
(I (CONTINUED))
t
FORWARD REPRODUCTION DIRECTION

FIG.4

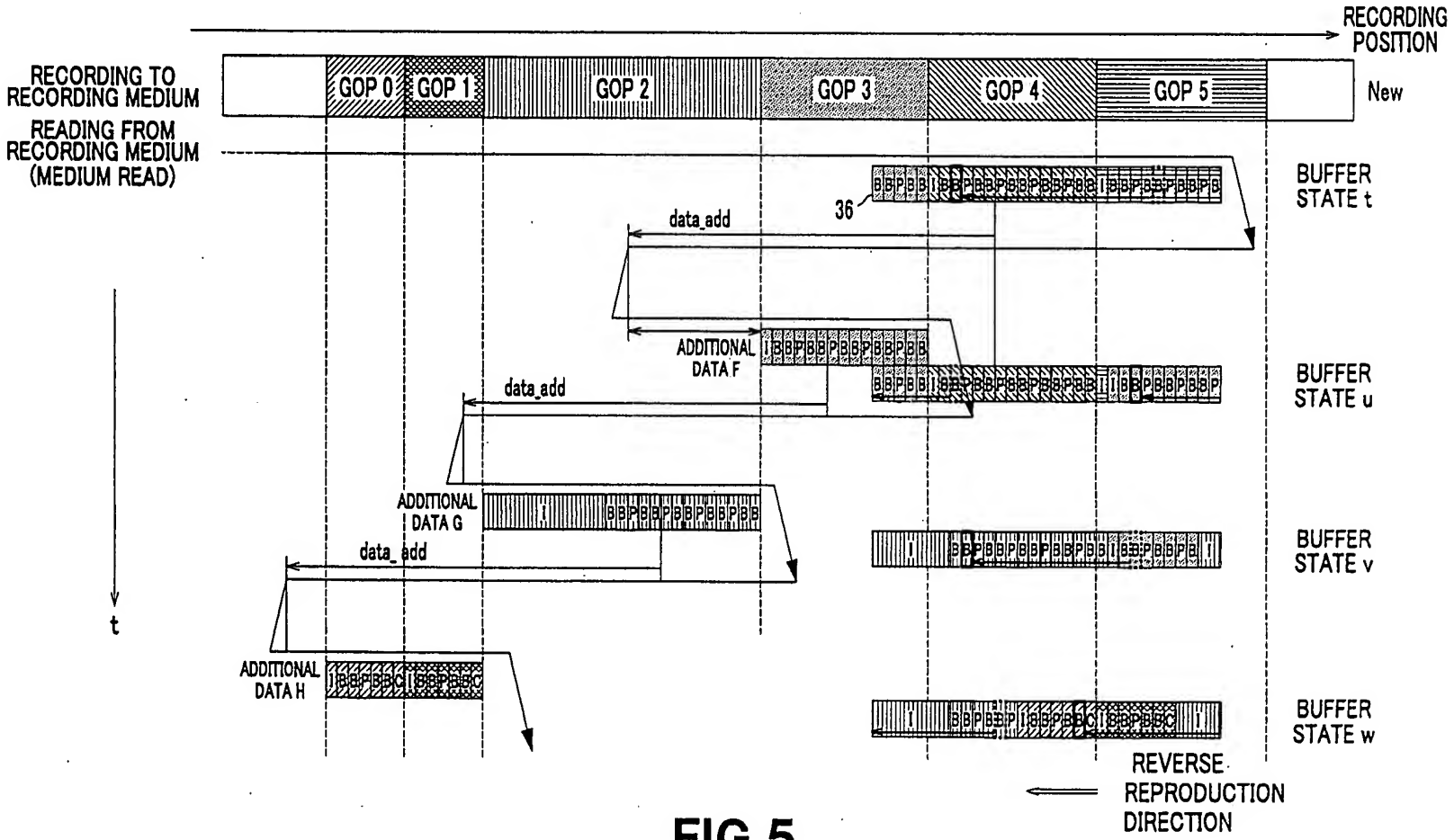
RECORDING POSITION
RECORDING TO RECORDING MEDIUM
READING FROM RECORDING MEDIUM (MEDIUM READ)
GOP 0
GOP 1
GOP 2
GOP 3
GOP 4
GOP 5
New
BUFFER STATE t
36
data_add
ADDITIONAL DATA F
BUFFER STATE u
data_add
ADDITIONAL DATA G
BUFFER STATE v
data_add
ADDITIONAL DATA H
BUFFER STATE w
t
REVERSE REPRODUCTION DIRECTION

FIG.5

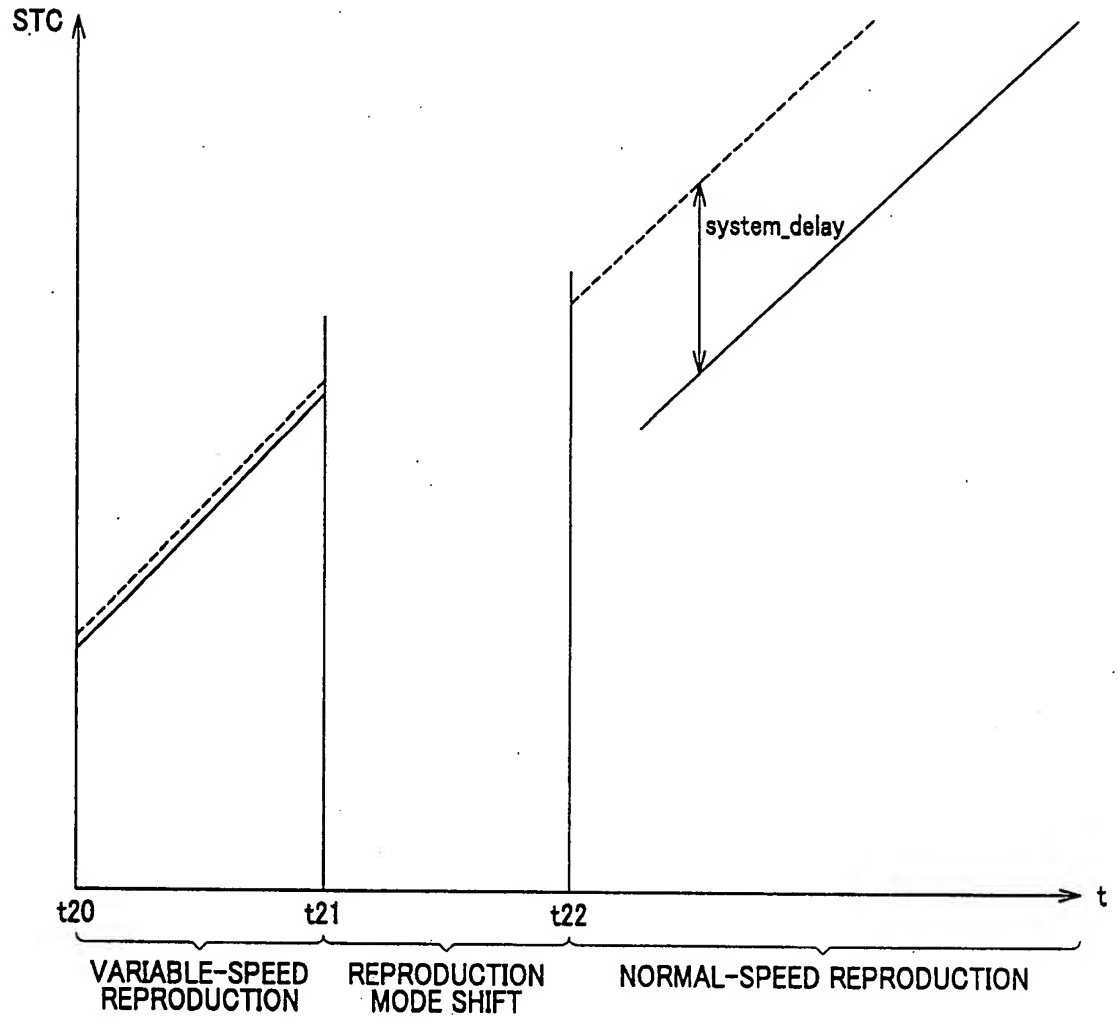
STC
system_delay
t20
t21
t22
t
VARIABLE-SPEED REPRODUCTION
REPRODUCTION MODE SHIFT
NORMAL-SPEED REPRODUCTION

FIG.6

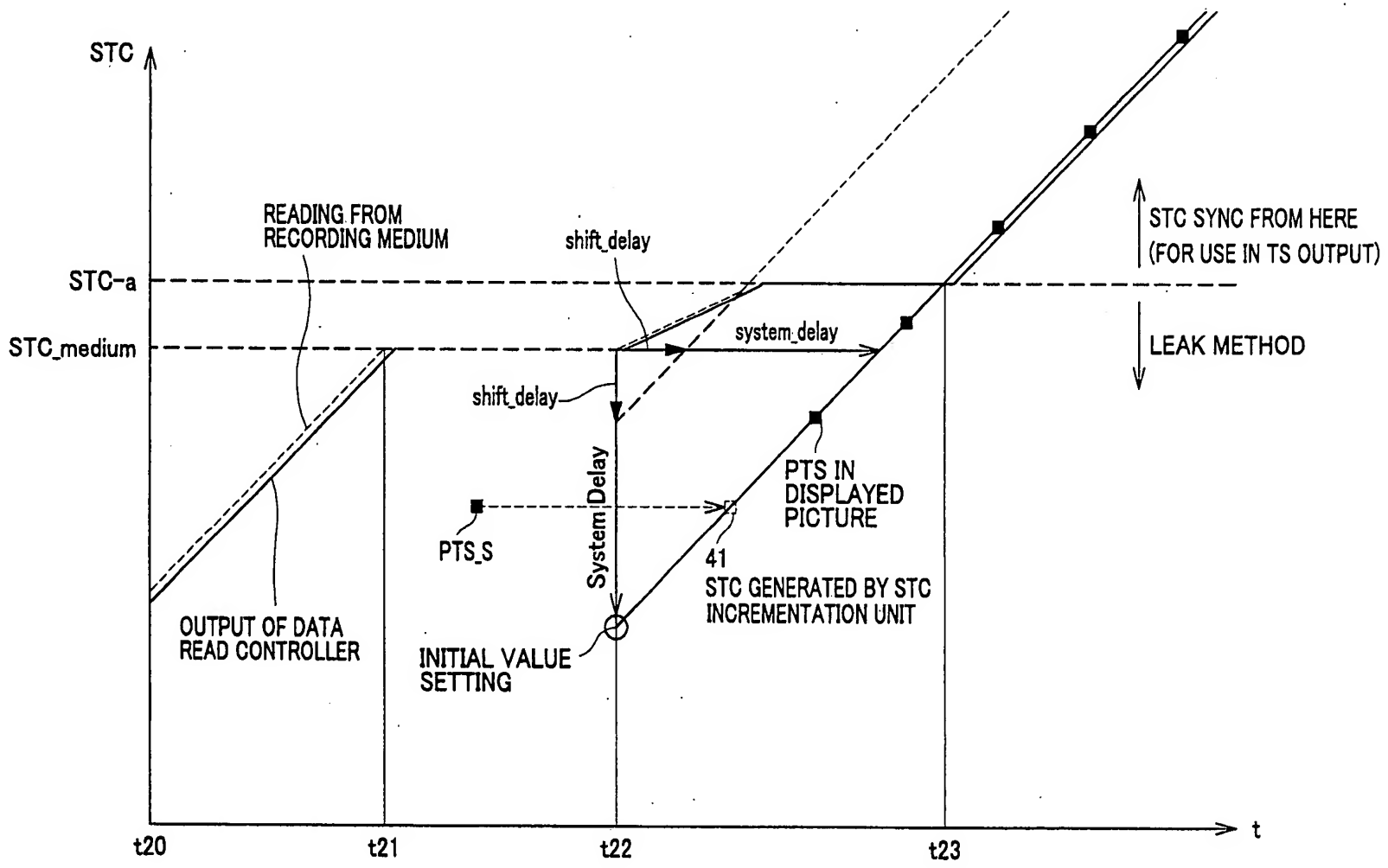
STC
READING FROM RECORDING MEDIUM
shift_delay
STC SYNC FROM HERE (FOR USE IN TS OUTPUT)
STC-a
STC_medium
system_delay
LEAK METHOD
shift_delay
System Delay
PTS IN DISPLAYED PICTURE
PTS_S
41
STC GENERATED BY STC INCREMENTATION UNIT
OUTPUT OF DATA READ CONTROLLER
INITIAL VALUE SETTING
t20
t21
t22
t23
t

FIG.7

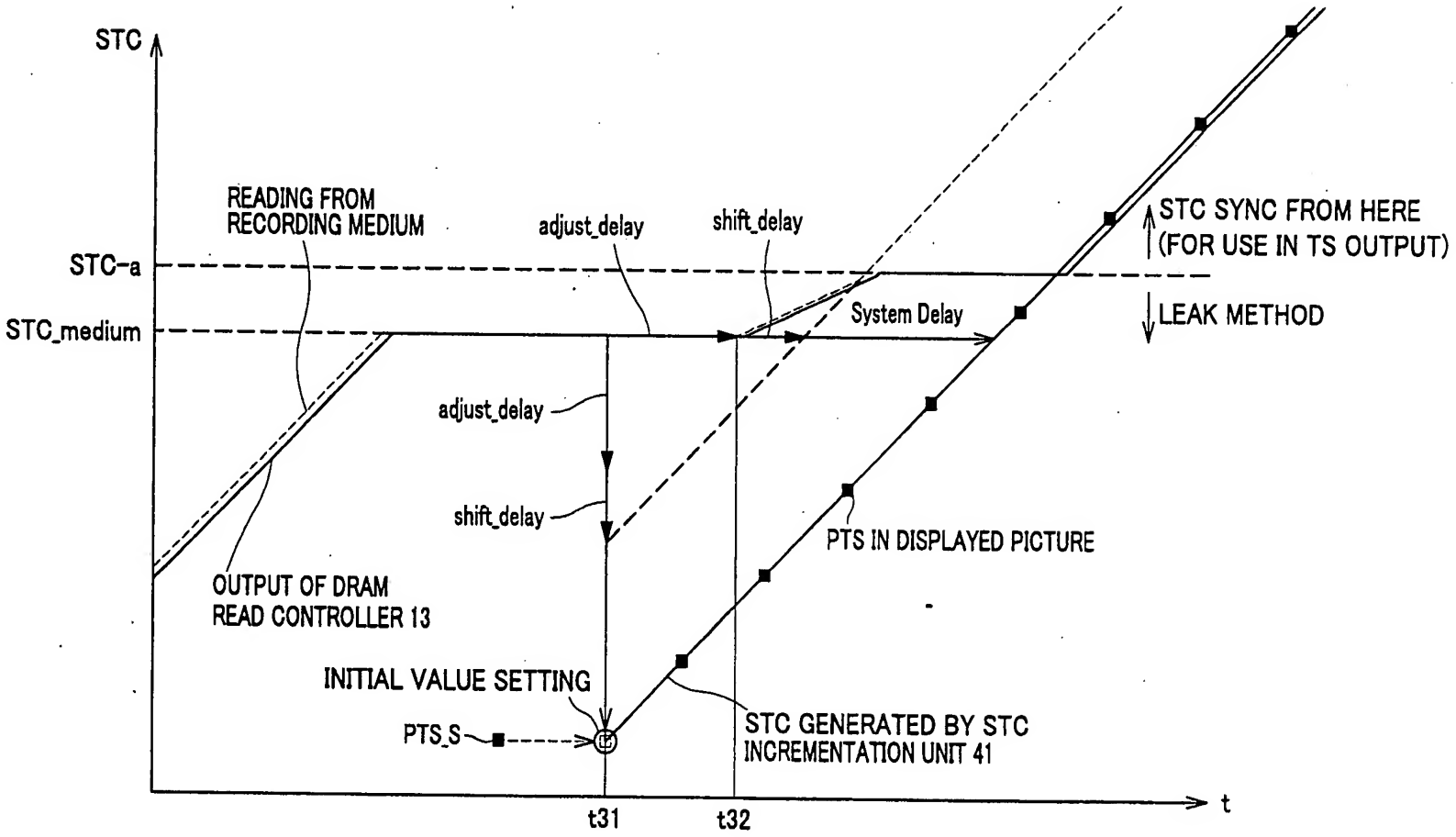
STC
READING FROM
RECORDING MEDIUM
adjust_delay
shift_delay
STC SYNC FROM HERE
(FOR USE IN TS OUTPUT)
STC-a
System Delay
LEAK METHOD
STC_medium
adjust_delay
shift_delay
PTS IN DISPLAYED PICTURE
OUTPUT OF DRAM
READ CONTROLLER 13
INITIAL VALUE SETTING
PTS_S
STC GENERATED BY STC
INCREMENTATION UNIT 41
t31
t32
t

FIG.8